

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-40 (canceled)

41. (currently amended) A polymeric foam powder prepared by ~~the process of claim 39~~ a method of preparing foam powder from polymeric foam, the method comprising:

a) comminuting the foam in a crusher comprising at least two surfaces moving at different speeds, said comminuting comprising contacting at least a portion of the foam to said at least two surfaces, thereby preparing a crushed product comprising particles;

b) quenching the crushed product exiting the crusher with a cooling medium, wherein a mass flow rate of the cooling medium has a value that is at least a certain percentage of a mass flow rate of the crushed product, wherein said value is at least a minimum value suitable for dilute phase pneumatic conveying of the crushed product and

c) separating said particles from the crushed product, wherein substantially all of the crushed product exiting the crusher is scraped off said at least two surfaces of said crusher prior to separating said particles from the crushed product.

42. (currently amended) A polymeric foam powder of claim 41, comprising polyurethane foam powder having a first particle size of about 0.005 mm to about 2 mm, ~~prepared by the process of claim 33~~.

43. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size range between 0.001 mm and about 2 mm, ~~prepared by the process of claim 33~~.

44. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size range between 0.001 mm and about 2 mm, ~~prepared by the process of claim 33~~.

45. (original) A polymeric foam powder of claim 44 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

46. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size range between 0.001 mm and about 2 mm, ~~prepared in accordance with claim 33~~.

47. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.250 mm, ~~prepared in accordance with claim 33~~.

48. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.045 mm, ~~prepared in accordance with claim 33~~.

49. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.020 mm, ~~prepared in accordance with claim 33~~.

50. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.250 mm, ~~prepared in accordance with claim 33~~.

51. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.045 mm, ~~prepared in accordance with claim 33~~.

52. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.020 mm, ~~prepared in accordance with claim 33~~.

53. (original) A polymeric foam powder of claim 50 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

54. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.250 mm, ~~prepared in accordance with claim 33~~.

55. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.045 mm, ~~prepared in accordance with claim 33~~.

56. (currently amended) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.020 mm, ~~prepared in accordance with claim 33~~.

Claims 57-91 (canceled).

92. (currently amended) ~~Foam powder produced by the process of claim 91 containing comprising polyurethane foam and methylene chloride, the foam powder made by a method of substantially removing contaminant materials selected from the group consisting of oil and grease from a polymeric foam, the method comprising:~~

- a) comminuting the polymeric foam to prepare polymeric foam powder; and
- b) treating the polymeric foam powder with a solvent capable of dissolving the contaminant material,

wherein the solvent comprises one or more solvents selected from the group consisting of liquid carbon dioxide, alcohols, ketones, acetone, alkanes, halogenated hydrocarbons, methylene chloride, and perchloroethylene.

Claims 93-95 (canceled)

96. (original) A comminuted polyurethane foam powder comprising at least 5% by weight of comminuted flexible polyurethane foam powder and further including one or more production contaminants selected from the group consisting of polyurethane foam skins, polymer sheeting, and paper.

97. (original) The comminuted polyurethane foam powder of claim 96 containing substantially no rigid polyurethane foam.

98. (original) The comminuted polyurethane foam powder of claim 96 containing said contaminants in the range from about 0.1% to about 75% by weight.

99. (original) The comminuted polyurethane foam powder of claim 96 containing said contaminants in the range from about 0.5% to about 75% by weight.

100. (original) The comminuted polyurethane foam powder of claim 96 wherein said comminuted polyurethane foam powder has been comminuted from polyurethane foam having cells with cell walls.

101. (original) The comminuted polyurethane foam powder of claim 100 wherein said comminuted polyurethane foam powder has substantially no remaining cells.

102. (original) The comminuted polyurethane foam powder of claim 96 having a particle size ranging from about 0.001 mm to about 2 mm.

103. (original) The comminuted polyurethane foam powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.25 mm.

104. (original) The comminuted polyurethane foam powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.150 mm.

105. (original) The comminuted polyurethane foam powder of claim 96 having a

particle size ranging from about 0.001 mm to about 0.045 mm.

106. (original) The comminuted polyurethane foam powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.020 mm.

107. (original) The comminuted polyurethane foam powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.010 mm.

108. (original) The comminuted polyurethane foam powder of claim 96 wherein the contaminated polymeric foam comprises polyurethane foam that is contaminated with polyurethane foam skins.

109. (original) The comminuted polyurethane foam powder of claim 96 wherein the contaminated polymeric foam comprises polyurethane foam that is contaminated with polymeric sheet.

110. (original) The comminuted polyurethane foam powder of claim 109 wherein the polymeric sheet comprises a polymer selected from polyethylene, polypropylene, and polystyrene.

111. (original) The comminuted polyurethane foam powder of claim 110 wherein the polymeric sheet comprises polyethylene.

112. (original) The comminuted polyurethane foam powder of claim 111 wherein the polymeric sheet comprises polyethylene with a softening point less than about 135°C.

113. (original) The comminuted polyurethane foam powder of claim 96 wherein the contaminated polymeric foam comprises polyurethane foam that is contaminated with paper.

114. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and polyurethane foam skins having a size between

0.001 mm and about 2 mm.

115. (original) The comminuted polyurethane foam powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.25 mm.

116. (original) The comminuted polyurethane foam powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.150 mm.

117. (original) The comminuted polyurethane foam powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.045 mm.

118. (original) The comminuted polyurethane foam powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.020 mm.

119. (original) The comminuted polyurethane foam powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.010 mm.

120. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 2 mm.

121. (original) The comminuted polyurethane foam powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.25 mm.

122. (original) The comminuted polyurethane foam powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.150 mm.

123. (original) The comminuted polyurethane foam powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle

size between 0.001 mm and about 0.045 mm.

124. (original) The comminuted polyurethane foam powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.020 mm.

125. (original) The comminuted polyurethane foam powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.010 mm.

126. (original) The comminuted polyurethane foam powder of claim 120 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

127. (original) The comminuted polyurethane foam powder of claim 126 wherein the polymeric sheet comprises polyethylene.

128. (original) The comminuted polyurethane foam powder of claim 127 wherein the polymeric sheet comprises polyethylene with a softening point less than about 135°C.

129. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 2 mm.

130. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.25 mm.

131. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.150 mm.

132. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.045 mm.

133. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.020 mm.

134. (original) The comminuted polyurethane foam powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.010 mm.

Claims 135-159 (canceled)